

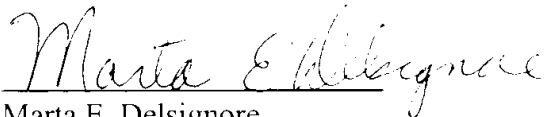
PATENT

REMARKS

By the foregoing amendment the specification and claims have been amended to conform more closely with U.S. patent practice.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "**Version with markings to show changes made.**"

Respectfully submitted,



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**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**IN THE SPECIFICATION:**

Page 1, before the first full paragraph please insert:

--This application is a national stage application of PCT/GB00/00268 which was published in English under publication number WO 00/44851 on August 3, 2001--

Page 1, after line 3, please insert:

--The present invention relates to electroluminescent materials which can emit light in the ultra-violet region of the spectrum and devices made using such materials.

**BACKGROUND OF THE INVENTION--**

Page 2, after line 13, please insert:

--For example, there are devices and displays etc. where ultra-violet light is used to excite other materials to cause these other materials to fluoresce in the visible spectrum.

**SUMMARY OF THE INVENTION--**

Page 4, after line 10, please insert:

--The materials of the present invention can be incorporated into electroluminescent devices which emit ultra-violet light and the invention include such electroluminescent devices.

**BRIEF DESCRIPTION OF THE DRAWINGS**

Figure 1 is a spectrum gadolinium ethylenediaminetetracetate sodium salt; and

Figure 2 is a spectrum of gadolinium europium ethylenediametetracetate salt.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS--

Please replace Page 8, line 1 as follows:

--[Claims] 1 Claim--

IN THE CLAIMS:

Please amend the following claims:

1. (Amended) An electroluminescent material which emits light in the ultra-violet region of the spectrum which comprises an organic metallic complex of at least one selected from the group consisting of a transition metal, a lanthanide [or] and an actinide and a polyamine ligand.
2. (Amended) An electroluminescent material as claimed in claim 1 [in which the metal is] comprising gadolinium in the III state and a polyamine ligand.
3. (Amended) An electroluminescent material as claimed in claim 1 [or 2 in which] wherein the ligand is selected from the group consisting of ethylene diamine tetramine, DCTA, DTPA [or] and TTHA.
4. (Amended) An electroluminescent material as claimed in claim [3] 25 in which the complex is in the form of a salt.

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6. (Amended) An electroluminescent material as claimed in claim 4 in which the salt is [a] selected from the group consisting of transition metal, lanthanide [or] and actinide salt.
7. (Amended) An electroluminescent material as claimed in claim 4 in which the salt [is] has a formula  $\text{Ln}^*[\text{Ln}(\text{EDTA})]_3$  and wherein Ln and  $\text{Ln}^*$  are the same or different and are selected from the group consisting of transition metals, lanthanides and actinides.
8. (Amended) An electroluminescent material as claimed in claim 7 in which Ln and  $\text{Ln}^*$  [is] are selected from the group consisting of Gd, Sm, Eu, Tb and Dy.
9. (Amended) An electroluminescent material as claimed in [any one of claims 1, 4 or 5 in which] claim 1 wherein the [metal] complex is  $\text{Gd}[\text{Eu}(\text{EDTA})]_3$ .
10. (Amended) An electroluminescent device which comprises [a transparent substrate on which is deposited an electroluminescent material as claimed in any one of the preceding claims] sequentially (i) a first electrode comprising a transparent conductive substrate (ii) a layer of a hole transmitting material (iii) a layer of an electroluminescent material which emits light in the ultra-violet region of the spectrum and which comprises an organic metallic complex of a transition metal, lanthanide or actinide and a polyamine ligand and (iv) a layer of an electron transmitting material and (v) a metal electrode.
11. (Amended) An electroluminescent device as claimed in [claims 1 to] claim 10 in which the transparent substrate is a conductive glass or plastic material which acts as the anode.

Please cancel claim 12.

13. (Amended) An electroluminescent device as claimed in [any one of claims] claim 10 [to 12] in which there is a hole transporting material mixed with the electroluminescent material in a ratio of 5 to 95% of the electroluminescent material to 95 to 5% of the hole transporting [compound] material.

14. (Amended) An electroluminescent device as claimed in claim [12 or 13] 10 in which the hole transporting [layer] material is an aromatic amine complex.

15. (Amended) An electroluminescent device as claimed in claim [14] 10 in which the hole transporting [layer] material is selected from the group consisting of poly(vinylcarbazole), N,N'-diphenyl-N,N'-bis (3-methylphenyl)-1,1' -biphenyl -4,4'-diamine (TPD) [or] and polyaniline.

Please cancel claims 16 and 17.

18. (Amended) An electroluminescent device as claimed in [any one of claims] claim 10 [to 17] in which an electron injecting material is mixed with the electroluminescent material and co-deposited with it.

19. (Amended) An electroluminescent device as claimed in claim [17 or] 18 in which the electron injecting material is selected from the group consisting of a metal complex [or] oxadiazole [or] and an oxadiazole derivative.

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20. (Amended) An electroluminescent device as claimed in claim 19 in which the electron injecting material is selected from the group consisting of an aluminum quinolate [or] and 2-(4-biphenyl)-5-(4-tert-butylphenyl)-1,3,4 oxadiazole.

22. (Amended) An electroluminescent device as claimed in claim [21] 11 in which the anode is selected from the group consisting of [a] aluminum alloy, magnesium alloy, lithium alloy, calcium alloy [or a] and magnesium silver alloy.

Please cancel claim 23.

24. (Amended) An electroluminescent device as claimed in [any one of the preceding claims] claim 10 [to 23] in which there is [a] at least one layer [or layers] which incorporates a dye which fluoresces in ultra-violet light to give emitted light in the colour spectrum.